STIC Search Report
EIC 1700

STIC Database Tracking Number: 209899

TO:	From:
Scott R Kastler Location: REM 6C03 Art Unit : 1742 December 12, 2006 Case Serial Number: 10/771883	Mei Huang Location: EIC 1700 REMSEN 4B28 Phone: 571/272-3952 Mei.huang@uspto.gov

Search Notes

Examiner Kastler,

Only three answers were hit and one of them is the current application.

Please feel free to contact me if you have any questions or if you would like to refine the search query,

Thank you for using STIC services!

Mei Huang

Banks, Kendra 209899

From: SCOTT KASTLER [scott.kastler@uspto.gov]
Sent: Monday, December 11, 2006 8:07 AM
To: STIC-EIC1700
Subject: Database Search Request, Serial Number: 10/771883

Requester:
SCOTT KASTLER (P/1742)
Art Unit:
GROUP ART UNIT 1742
Employee Number:
60485
Office Location:
REM 06C03
Phone Number:
(571)272-1243
Mailbox Number:
6 C 03 REM

Case serial number:
10/771883
Class / Subclass(es):

Earliest Priority Filing Date:

Format preferred for results:
Paper
Search Topic Information:
a search for a platinum alloy containing: 55-63 wt% platinum
2-10 wt% cobalt
27-43 wt% copper
Special Instructions and Other Comments:

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Bib Data Sheet

CONFIRMATION NO. 3749

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/771,883	02/04/2004 RULE	420	1742	COH-15303

APPLICANTS

Peter Tews, Birkenfeld, GERMANY;

**** CONTINUING DATA ***************************

**** FOREIGN APPLICATIONS *********************

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
** 05/03/2004

		STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed	☐ yes ☐ no	GERMANY	0	39	14
35 USC 119 (a-d) conditions met	☐ yes ☐ no ☐ Met after Allowance				
Verified and Acknowledged	Examiner's Signature Initials				

ADDRESS
040854

TITLE

Platinum alloy and method of production thereof

FILING FEE RECEIVED		
3438	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

STIC Search Results Feedback Form

EIC17000

Questions about the scope or the results of the search? Contact *the EIC searcher or contact*:

Kathleen Fuller, EIC 1700 Team Leader
571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 1713*
- *Relevant prior art* ***found****, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art* ***not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC1700 REMSEN 4B28

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=> fil reg
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     (FILE 'HOME' ENTERED AT 09:12:51 ON 12 DEC 2006)

     FILE 'HCAPLUS' ENTERED AT 09:13:13 ON 12 DEC 2006
                E US20050169791/PN
L1              1 S E3

     FILE 'REGISTRY' ENTERED AT 09:14:25 ON 12 DEC 2006
L2              9 S E1-9
L3           2559 S 50-70 PT/MAC
L4          64115 S 1-15 CO/MAC
L5          12064 S 25-45 CU/MAC
L6              6 S L3 AND L4 AND L5

     FILE 'HCAPLUS' ENTERED AT 09:23:23 ON 12 DEC 2006
L7              3 S L6


=> fil hcap
FILE 'HCAPLUS' ENTERED AT 09:37:57 ON 12 DEC 2006
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=> d l7 ibib abs hitstr hitind 1-3

L7   ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:696422  HCAPLUS
DOCUMENT NUMBER:          143:177473
TITLE:                    Platinum-copper alloys suitable for jewelry and
                          ornamental articles
INVENTOR(S):              Tews, Peter
PATENT ASSIGNEE(S):       Germany
SOURCE:                   U.S. Pat. Appl. Publ., 7 pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------
     --------
     US 2005169791         A1    20050804    US 2004-771883
                                                                    200402
                                                                    04
     CA 2555255            AA    20050818    CA 2004-2555255
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200402
04
WO 2005075690 A1 20050818 WO 2004-EP1020
200402
04
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1711641 A1 20061018 EP 2004-707913
200402
04
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.: US 2004-771883 A
200402
04
WO 2004-EP1020 W
200402
04

AB The decorative alloys contain: Pt 55-63. Cu 27-43, and Co 2-10% by weight; or Pt 70-79.5, Cu 10.5-28, and Co 2-10% by weight The alloys optionally contain Pd, Ir, and/or Ru at 0.001-2%, and/or In and/or Ga 0.001-2%. The Pt alloys can be prepared by induction melting of charge mixts., have good mech. formability, and are suitable for manufacture of ornamental articles, watch bands, and jewelry. The typical Pt alloy having decorative white color and the m. range or 1360-1410° contains Pt 58.6, Cu 37.3, and Co 4.1%, and has annealed Vickers microhardness of 170 increased by 60% rolling to 300.

IT **861252-00-8 861252-01-9 861252-02-0**
RL: TEM (Technical or engineered material use); USES (Uses)
(alloying of; platinum-copper alloys suitable for white jewelry and ornamental articles)

RN 861252-00-8 HCAPLUS
CN Platinum alloy, base, Pt 55-63,Cu 27-43,Co 2-10 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Pt	55 - 63	7440-06-4
Cu	27 - 43	7440-50-8
Co	2 - 10	7440-48-4

RN 861252-01-9 HCAPLUS
CN Platinum alloy, base, Pt 70-80,Cu 10-28,Co 2-10 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Pt	70 - 80	7440-06-4
Cu	10 - 28	7440-50-8
Co	2 - 10	7440-48-4

RN 861252-02-0 HCAPLUS
CN Platinum alloy, base, Pt 58-60,Cu 36-39,Co 3.5-4.5 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Pt	58 - 60	7440-06-4
Cu	36 - 39	7440-50-8
Co	3.5 - 4.5	7440-48-4

IT **861252-03-1**
RL: TEM (Technical or engineered material use); USES (Uses)
(for jewelry; platinum-copper alloys suitable for white jewelry and ornamental articles)
RN 861252-03-1 HCAPLUS
CN Platinum alloy, base, Pt 59,Cu 37,Co 4.1 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Pt	59	7440-06-4
Cu	37	7440-50-8
Co	4.1	7440-48-4

IC ICM C22C005-04
INCL 420466000
CC 56-3 (Nonferrous Metals and Alloys)
IT **861252-00-8 861252-01-9 861252-02-0**
RL: TEM (Technical or engineered material use); USES (Uses)
(alloying of; platinum-copper alloys suitable for white jewelry and ornamental articles)
IT **861252-03-1**
RL: TEM (Technical or engineered material use); USES (Uses)
(for jewelry; platinum-copper alloys suitable for white jewelry and ornamental articles)

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:570062 HCAPLUS
DOCUMENT NUMBER: 141:127237
TITLE: Pt-based amorphous alloys for melt casting with bulk solidification
INVENTOR(S): Schroers, Jan; Johnson, William L.
PATENT ASSIGNEE(S): Liquidmetal Technologies, Inc., USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2004059019 A1 20040715 WO 2003-US41345
200312
22
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG
AU 2003300388 A1 20040722 AU 2003-300388
200312
22
US 2006124209 A1 20060615 US 2005-540337
200511
07
PRIORITY APPLN. INFO.: US 2002-435408P P
200212
20
WO 2003-US41345 W
200312
22

AB The Pt-based amorphous alloys suitable for melt-quenched articles with bulk solidification typically contain Pt 39-50, Co 0-15, Cu 16-35, Ni 0-15, and P 17-25 atomic%, optionally with minor Si and/or B. The Pt alloys optionally contain added Pd, and minor Cr, Ir, Au, Ge, Ga, Al, Sn, and/or Sb. The Pt-Ni-Co-Cu-P alloys are suitable for melting at <600°, and can be cast with melt quenching to the amorphous thickness of 5-20 mm. The Pt-alloy melt is optionally stabilized with molten B2O3 flux on the surface in cooling, or melted under vacuum followed by pressurizing at 5-150 psi. The Pt44Cu26Ni10P20 alloy shows melting at 600°, glass-transition temperature 255°, critical amorphous casting thickness of <14 mm, and Vickers microhardness of 400.

IT **721966-54-7**
RL: TEM (Technical or engineered material use); USES (Uses)
(alloying of; Pt-Cu-Ni-P type alloys cast with bulk solidification for amorphous microstructure)

RN 721966-54-7 HCAPLUS

CN Platinum alloy, base, Pt 29-89,Cu 7-33,Co 0-13,Ni 0-13,P 3.6-12 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Pt	29 - 89	7440-06-4
Cu	7 - 33	7440-50-8
Co	0 - 13	7440-48-4
Ni	0 - 13	7440-02-0
P	3.6 - 12	7723-14-0

IC ICM C22C005-04

CC 56-3 (Nonferrous Metals and Alloys)
IT **721966-54-7** 721966-55-8
RL: TEM (Technical or engineered material use); USES (Uses)
(alloying of; Pt-Cu-Ni-P type alloys cast with bulk solidification for amorphous microstructure)

L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:732717 HCAPLUS
DOCUMENT NUMBER: 133:301240
TITLE: Magnetic dental casting alloys
INVENTOR(S): Naruse, Shigeyasu; Ide, Norihiro; Yamada, Shoji; Watanabe, Osamu
PATENT ASSIGNEE(S): Tokuriki Honten K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000287999	A2	20001017	JP 1999-101790	19990408

PRIORITY APPLN. INFO.: JP 1999-101790 19990408

AB The posts attached to residual dental roots to attract magnets attached to dentures, comprise Pd-Co- or Pt-Co-based magnetic alloys containing Au, Ag, Cu, Zn, In, and/or Sn. A magnetic alloy containing Pd 48, Co 22, Au 3, Ag 14, Cu 10, Zn 2, and In 1 weight% showed m.p. 1.192°, attractive force 415 g, good castability, and high corrosion resistance.
IT **301529-73-7**
RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Pd-Co- or Pt-Co-based magnetic dental casting alloy posts for denture fixation)
RN 301529-73-7 HCAPLUS
CN Cobalt alloy, base, Co 10-100,Pt 0.5-90,Au 0-58,Ag 0-35,Cu 0-30,In 0-5,Sn 0-5,Zn 0-5 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Co	10 - 100	7440-48-4
Pt	0.5 - 90	7440-06-4
Au	0 - 58	7440-57-5
Ag	0 - 35	7440-22-4
Cu	0 - 30	7440-50-8
In	0 - 5	7440-74-6
Sn	0 - 5	7440-31-5
Zn	0 - 5	7440-66-6

IC ICM A61C013-235
ICS A61C008-00; C22C005-04
CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 56, 77

IT 301529-62-4 301529-63-5 301529-64-6 301529-65-7 301529-66-8
301529-67-9 301529-68-0 301529-69-1 301529-70-4 301529-71-5
301529-72-6 **301529-73-7**
RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Pd-Co- or Pt-Co-based magnetic dental casting alloy posts for denture fixation)

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